

August 2011



The Standing Wave

The monthly newsletter of the Hiawatha Amateur Radio Association of Marquette, Michigan. Comments and suggestions can be sent to the club at P.O. Box 1183, Marquette, Mi 49855 or to the editor at ki8af@arrl.net Club info, membership, dues, etc can be found on our website at www.qsl.net/k8lod

MONTHLY MEETING: Marquette County Health Department Bldg., Lower Level, Negaunee Township.
Date: **August 4th, 2011**
Time: **6:00 PM**

CLUB OFFICERS, 2011

Pres. Lou Gembolis KG8NK
VP: Lane Dawson WD8PAJ
Sec. Mike Beltz KD8JIR
Tres. Fred Mouser KD8JIP
Board Members:
Past Pres. Paul Racine KB0P
EC Rich Schwenke N8GBA
Eric Pellinen N8TEV

STANDING WAVE

Editor, Greg KI8AF
Publishing, Lane WD8PAJ
Distribution, Greg KI8AF

REPEATERS

KG8YT, 147.270 / .870 with 100 Hz PL-Tone Marquette
K8LOD, 146.910 / .310 Ishp.
N8RRZ, 146.640 / .040 Gwinn with 100 Hz PL-tone
K8LOD-3.144.390 APRS Digi Mqt

WHAT'S NEXT FOR US

August 4th Picnic, Satellite Demo, at Meeting
August 13th Bike Race
Aug 30th – Aug 31st International Lighthouse

HARA AUGUST 4TH MEETING AND PICNIC

HARA AUGUST MEETING

Picnic starts at 6:00 P.M.
Short Meeting at 7:00 P.M.

PLACE: West Ishpeming Township Hall

West US-41 (Same place where we had Field Day in the past.)

DEMONSTRATION: Working Satellites with your HT!

HARA will provide Hot Dogs, Buns, Mustard and Ketchup, Potato Chips and Pop along with Plates, Forks and Knives. Coffee and Charcoal will also be provided by the club. If you want, bring something to pass!

Please let Lou, KG8NK know if you are planning on attending if you have not already done so.
THANKS - SEE YOU THERE!

Lou KG8NK HARA President
(906) 485-5442
lgembolis@chartermi.net

V.E. TESTING:

09/10 Marquette: 8:30am eastern time, (arrive by 8:00am) Marquette County Health Dept. Bldg, U.S. 41 just east of the Michigan State Police Post. Contact Rich Schwenke, N8GBA at 906 249-3837 or e-mail: n8gba@att.net

10/8 Houghton: 8:30am eastern time, V.E. Exams at Zion Lutheran Church in Hancock. 400 Ingot St. North on Hwy US 41 (Quincy Hill) near the Lookout turn left on Ingot. Go up about a block. The church is on the left hand side of the street. This is a barrier free entrance for the handicapped. Contact Glenn Ekdahl, WA8QNF at (906) 482-7743 or email to: wa8qnf@arrl.net if you have questions.

08/06 Iron Mountain: 9:00am central time, (arrive by 8:30am) Dickinson County Library (conference room), contact Mark J. Lewis N8UKD (906) 776-1553, 412 Fairmount St. Kingsford, Mi 49802

10/8 Gladstone: Delta County Amateur Radio Society Time: 10:00AM (Walk-ins welcome) Contact: Howard St. John (906) 428-9476 Email: hsj99@charter.net VEC: ARRL/VEC Location: Gladstone City Hall Main Meeting Room 1100 Delta Ave. Gladstone, MI 49837

Please arrive one-half hour early for test sessions to give time to process applications. Testing applicants should bring the following items with them: Two pieces of I.D. one being a photo I.D., Original license and one clear copy of their license if applicable, Completed form 605 (one will be provided if you don't have one), pencils, calculator and the test fee of \$15.00. Please have the correct fee as examiners do not carry change. *Please contact the individual(s) listed to confirm date(s), location(s), etc.*

HARA membership? New member or need to renew your membership? Dues can be mailed to the: Hiawatha Amateur Radio Association, P.O. Box 1183, Marquette, MI 49855. Dues annual rate structure: Single \$15.00, Family \$20.00, Associate \$10.00, Family associate \$15.00, Student \$7.50. More information and an application form is available at <http://www.qsl.net/k8lod/membership.html>

This and That!

Via email from Greg, KI8AF

- 1. Dave KD8DRF would like to thank all those that helped with Marquette's 4th of July parade.**
- 2. Also here is a photo of some of the individuals that helped with the parade. Many are Kiwanis members, some are hams and others are volunteers. (See below).**
- 3. Rich N8GBA is looking for help with the Ore To Shore Bike races schedule for August 13th. Contact him at 249-3837, 360-5354 or n8gba@att.net**



Illustration 1: Some of the Marquette 4th of July Parade Crew for 2011

EMCOMM and You!

PR.....Happenings

Our PR committee needs input from each of us if we expect them to do their part in getting the word out about our organization and amateur radio. Please contact a committee member well in advance of a happening. PR committee members are: Lee KD8BJC leerowe@charter.net or 346-9278, Lane WD8PAJ laned@chartermi.net or 486-8697.

Volunteering your time Counts!

Each month many members volunteer their time for club activities some of which might include repeater maintenance, ARES, EOC operations, Life Tracker, newsletter, PR, club business, etc. All these volunteered hours and mileage can be credited to HARA and amateur radio but only if you report them. AEC Dave Thomas KD8DRF reports these numbers monthly. So at the end of each month please contact Dave with services rendered, hours and mileage. Contact Dave at dlthomas@chartermi.net

New CPR Procedure

Lou, KG8NK sent this link on the new CPR procedure, Check it out!

<http://tinyurl.com/2fx8r59>

HIAWATHA AMATEUR RADIO ASSOCIATION

July 2011 Minutes

All Officers were present – President, Lou Gembolis KG8NK, Vice-Pres. Lane Dawson WD8PAJ, Secretary Mike Beltz KD8JIR, and Treasurer Fred Mouser KD8JIP

Meeting was called to order at 7:30 pm by Lou Gembolis KG8NK. A motion to approve the agenda by Peter Kotila KC8YTX and seconded by Bill Dowe KC8EWD. All approved the motion.

Introductions and Attendance: The Club had 14 members and 1 guests in attendance.

Secretary's Report – Mike KD8JIR submitted the June's meeting minutes and it was published in the Standing Wave. Members were asked if any changes were needed. No corrections noted although it was requested that the amount the club has in its bank account not be published. There was concern about non-members reading the newsletter and knowing what funds the club has. A motion to accept the Secretary's Report as corrected made by Bill Dowe KC8EWD and seconded by Dave Thomas KD8DRF. The motion passed.

Treasurer's Report – Fred KD8JIP handed out the accounting for H.A.R.A. for June. Our checking account balanced and our money market account increased by \$1.26. A motion to accept the Treasurer's Report by Jack Nelson N8JRN and seconded by Pete Kotila KD8DRF. The motion passed with one nay.

Correspondence – No new correspondence was received.

Committee Reports –

Repeaters/Tech. –Paul Racine KB0P stated the .640 repeater is broke. Paul is not exactly sure what is wrong or how to fix it. Contact with the manufacturer was also inconclusive.

Ares/Races - Rich N8GBA stated an exercise is coming up on July 16. Also the antennae still needs to be installed on the roof at the airport.

PR – The media are getting better at taking our information. We are seeing improvement on getting information out.

Other: FOX HUNT - Paul KB0P and Ryan N8RY pursued a person using a ham radio illegally. They got close but didn't catch the fox. They were hoping to persuade the young man to take classes, become a tech operator and transmit legally.

Old Business –

4th of July Parade – We had a good turnout. 16 members were involved. The major problem was the participants in the parade were not following the rules on distribution of candy.

Bike Race – Aug. 13th from 8:00am to 4:30pm - Rich Schwenke N8GBA stated that there is a new check point at Forestville and at Holli Log yard that we need volunteers for. We need Help.

New Business –

YMCA Triathlon – July 16 – 9am to noon in Ishpeming. Volunteers are needed.

Training Class – July 13 at 2pm at the Mich. State Police Post.(800 MHz)

Mileage Reimbursement - Jim Jacobson W8QQE made a motion to reimburse mileage (presently to Paul Racine KB0P) for club business. The motion was seconded by Peter Kotila KC8YTX. The motion was approved.

50/50 drawing – Congratulations to Dave Thomas KD8DRF.

End of Meeting – A motion to conclude the meeting was made by Jim Jacobson W8QQE and seconded by Peter Kotila KC8YTX. The motion was approved.

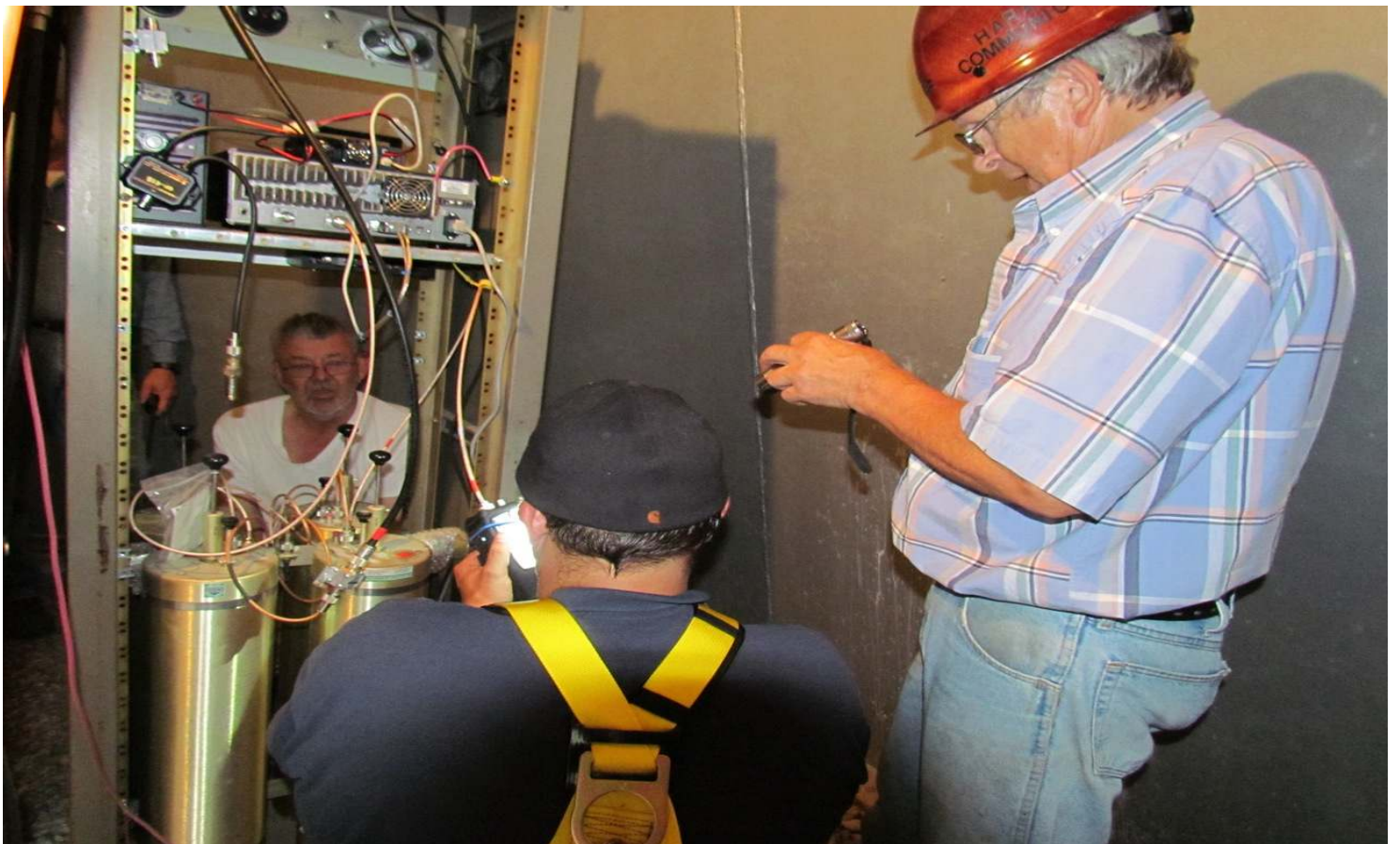
Post Meeting Program – Lou Gembolis KG8NK showed a home made 2 meter antennae with instructions on how to make it

August 4th Meeting – We will have a pot luck picnic either at Al Qual or at the Negaunee Twp hall depending on availability. We will start around 6:00-6:30pm.and we will have the meeting and satellite demo after dinner.

Future Meeting Programs – August. Working with Satellites

The following Pictures are from Lee Rowe showing the HARA club members working on the tower in Gwinn, Michigan:





For Sale:

from: Carl, KD8MAE

Carl, KD8MAE has the following items to sell:

ICOM 718 with DSP and a 250 hz filter

MFJ 993 auto tuner

\$500 or best offer.

Please contact Carl J Robare at the following email address:

kd8mae@netzero.net

NASA's Space Shuttle Program to Come to an End

from:

ARRL Letter, July 21, 2011

07/20/2011

When [Atlantis](#) once again touches the Earth in Florida on Thursday, July 21, an era will come to an end. This era saw dreams realized when men and women could go into space on a craft -- the space shuttle -- that could be used again and again. NASA's space shuttle fleet has set dreams aflight since its first launch on April 12, 1981, starting with [Columbia](#) and continuing with [Challenger](#), [Discovery](#), [Atlantis](#) and [Endeavour](#). These crafts have carried people into orbit repeatedly, launched, recovered and repaired satellites, conducted cutting-edge research and transported materials to build the largest structure in space, the International Space Station.

Barely 30 months after [Columbia](#) first lifted to the skies, radio amateurs around the world were excited about another first: a ham in space. It was 1983 -- the third year of the space shuttle program -- and Mission Specialist Owen Garriott, W5LFL, was on board [Columbia](#) for mission [STS-9](#). NASA had given Garriott permission to attempt radio contact with Amateur Radio operators on Earth during his free time.

"On the morning of Wednesday, December 7, 1983, Garriott's voice and call sign was plainly heard over Florida and Georgia as the space shuttle [Columbia](#) came across Florida and up the East Coast of the United States on orbit 144 of the mission," remembered Pat Lightcap, K4NRD, of Madison, Florida. "At 7:58 AM, W5LFL confirmed a contact with Jimmy Brooks, WA4BEV, in Georgia. Jimmy was at his home in Valdosta and used a homemade antenna for the transmissions on 145.550 MHz. Garriott was using a 5 W handheld transceiver with a temporary antenna taped inside a shuttle window. During the contact, the spacecraft was approximately 160 miles above the Earth."

According to Bill Pasternak, WA6ITF, Garriott's antenna was designed specifically for his use on STS-9. "It was designed and developed to meet NASA flight standards so that it could fit the contours of a specific window [on the shuttle]," he told the ARRL, "I believe it was built by Lou McFadin, W5DID. The radio was a Motorola commercial unit. For several reasons, it was decided to use a commercial handheld transceiver that could be flight certified quickly, rather than a ham radio handheld transceiver that would require a long NASA qualifying process."

In 1983, the Goddard Amateur Radio Club team provided around-the clock space shuttle retransmissions from its WA3NAN club station. These retransmissions provided the international ham radio community up-to-the-minute information during Garriott's flight and subsequent Space Shuttle Amateur Radio Experiment ([SAREX](#)) flights; SAREX was the precursor to the Amateur Radio on the International Space Station ([ARISS](#)) program. In the days prior to the Internet, these real-time bulletins and frequent orbital element updates could only be obtained through Amateur Radio.

"The first contact Owen made from [Columbia](#) was with Lance Collister, WA1JXN (now W7GJ), of Frenchtown, Montana, while approaching the US Pacific coastline," Pasternak told the ARRL. "This in itself was kind of an

oddity because there were thousands of California hams vying to be the first contact and after that first CQ, 145.55 MHz sounded like 20 meters during a rare DXpedition."

The series of two-way radio transmissions from STS-9 were so successful that Amateur Radio has been a significant part of the space shuttle program ever since. Amateur Radio has offered multiple educational opportunities between the astronauts on board the space shuttle and the International Space Station with students and campers, allowing young people to communicate directly with the astronauts as they circled the Earth. As the space shuttle program comes to an end, the many memories associated with space flight will remain with those who have grown up with the excitement of our men and women blasting off in to space -- the new frontier. --
Thanks to Pat Lightcap, K4NRD, and Bill Pasternak, WA6ITF, for some information

Editors Note: The following article first appeared in the Mich-A-Con RF newsletter in September 2006 and is being re-printed here as a salute to the NASA Shuttle Program and it's long affiliation with Amateur Radio !

School Space Shuttle Program and Ham Radio Celebrate Twenty Year Anniversary!

by Steve Skauge KD8CCP

The Marquette Area School District (MASD) in Marquette Michigan has been operating a simulated Space Shuttle Program for twenty years! This is an official NASA program that originally started in Cleveland, OH at NASA's Glen Research Center. Schools from across the country have participated in the program but Stuart Skauge (KD8DRD), a fifth grade teacher in Marquette, reports that he believes the MASD is the only one still doing the project and most likely the only one that has been doing the program for all twenty years!

Mr. Skauge, (KD8DRD) noted that the first mission was in May of 1987. Each 5th grade class goes on a "Mission" or field trip that takes them to a "remote" location to do science experiments. Nine missions were made this year. Charlene Gilbert, a NASA technical assistant in the International Space Station program even visited earlier this year and talked to the kids about the Space Program. Stu Skauge, (KD8DRD) also noted the Ham radio operators have helped with the project for all twenty years, at times it involved as many as twenty-five operators in the project at one time!

This official NASA program uses a converted school bus made to look like a Space Shuttle. The program is on the second bus now and has seen many advances through the years. The bus has been fitted with computers, a portable weather station, GPS and most importantly, Amateur Radio Gear. The fifth grade students are the astronauts and actually have training on how to do many different projects and jobs to be performed when the "Shuttle" takes off and lands at an "Alien" field trip location. The students apply for the different jobs and are then appointed to the many positions needed on a Space Shuttle, like navigator, commander, botanist, meteorologists and of course... Radio Operator.

The student astronauts operate 2-meter radio equipment both at "Mission Control" in the school and on the "Shuttle" so they get training and have licensed operators overseeing them at all times. Gregg Hanson (KI8AF) helped with the training and put in a lot of hours setting up packet and checking the radios. Gregg was out of town this year for the missions but has always been a great help. I was able to help "train" some of the communication officers on how to operate the radios and even helped out one day in "Mission Control". Bruce Kobie, (K8FIX) and other Ham operators also helped out during the field trips this year.

I noted during my time with the kids that the position of Radio Operator was a job all the students wanted. They also were very eager to learn about the many types of radio operation and all very interested in how they could get a ham licences. All were surprised to learn they did not have to be a certain age to get a license. I also told the students about the many astronauts, past and present that have ham radio licenses and even got a chance to tell them about some of the programs in place the International Space Station uses to talk to the students back here on earth!

Stuart Skauge (KD8DRD) also hopes to keep the program going and if all goes as planned make contact with a Space Mission next year! (I think I will have to help supervise on that day for sure!)



Note: Greg, KI8AF has been on vacation for a few months. During his absence I have the honor of doing the newsletter with the help of LaneWD8PAJ. Please send me any feedback, comments or suggestions on the newsletter for April, May, June, July and August of 2011.

Steve

KD8CCP@yahoo.com

And that's a wrap for another month. Please if you have an article or something which you may think will be of interest to the club membership get it to me. Also if you have any comments or suggestions please get a hold of me. 73 until next month, Greg KI8AF@arrl.net



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